

ABSTRACT

[0156] The methods of manufacturing molds from shape memory materials and molds made thereby, in accordance with the present invention, provide numerous advantages for molding castable composite parts. The initial mold cost is low enough to accommodate economical production of as few as a single part incorporating high surface definition and intricate three dimensional detail. The preferred methods and molds made thereby are transparent, thereby, curing of the corresponding part by ultra-violet and infra-red light is made possible, as well as, visual inspection during injection and curing of the given resin. Removal of the cured part from within the mold is simplified.

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